

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2018 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>MA0003</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Maintenance Area 0003</b>	<b>A</b>	<b>5.11</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.20%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01	0.01		
DWR UCIP LMA Responsibility								
<i>LMA Totals:</i>	0.01	0.00	0.01	0.20%	0.01	0.01	0.00	0.00

<b>Unit No. 01 Feather River RB</b>	Overall Unit Rating	Total Unit Miles						
<b>MA0003</b>	<b>A</b>	<b>5.11</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Animal Control	0.01		0.01	0.20%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.01	0.01		
DWR UCIP LMA Responsibility								
<i>Unit Totals:</i>	0.01	0.00	0.01	0.20%	0.01	0.01	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Fall 2018 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0003**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2018 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	5.11
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	3/22/2018 - 3/22/2018		9/18/2018 - 9/18/2018	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Steve Beckley		Steve Beckley	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0003_01_s_2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_MA0003_01_s_2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_MA0003_01_s_2013_7				
Comment Code					
Inspector Comment					
The Sutter Yard has received flood fight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.00	Rating **	A	Issue No.	8
LM End	5.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.898123 °	38.950796 °
				-121.617970 °	-121.585792 °
DWR ID	DWR_MA0003_01_f_2018_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_MA0003\_195\_8\_20181003\_00020.jpg



View looking upstream landside of the well maintained vegetation, Fall 2018.

LM Start	0.00	Rating **	A	Issue No.	9
LM End	5.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.898123 °	38.950796 °
				-121.617970 °	-121.585792 °
DWR ID	DWR_MA0003_01_f_2018_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual vegetation is well maintained, Fall 2018.					

Photo 1 of 1 : FA\_2018\_MA0003\_195\_9\_20181003\_00019.jpg



View looking upstream waterside of the well maintained vegetation, Fall 2018.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

## Sutter Maintenance Yard Maintenance Area 0003

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.78	Rating **	A/W	Issue No.	140 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.903339 °		38.903339 °
				-121.606209 °		-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
The rodent hole on the landward toe road was approximately 8" in diameter the hole is no longer there but should be monitored. Fall 2018.						

Photo 2 of 2 : FA\_2018\_MA0003\_195\_140\_20180918\_00006.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 8" rodent hole. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17092				

**Comment Code**

**Inspector Comment**

FS\_ID:53409

DS\_ID:17092

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - W. Wylie)

FIELD\_STRUCT\_DESC: 1 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].

FS Date: 10/4/2018 3:37:00 PM

Photo 1 of 3 : UCIP\_FA\_2018\_53409\_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17092				

**Comment Code**

**Inspector Comment**

FS\_ID:53409

DS\_ID:17092

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

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FS Date: 10/4/2018 3:37:00 PM

Photo 2 of 3 : UCIP\_FA\_2018\_53409\_64648.jpg



Concrete U shaped headwall on WS toe filled in with Sandbags. 16-inch pipe shown over top of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17092				

**Comment Code**

**Inspector Comment**

FS\_ID:53409

DS\_ID:17092

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

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FS Date: 10/4/2018 3:37:00 PM

Photo 3 of 3 : UCIP\_FA\_2018\_53409\_64647.jpg



Concrete U shaped headwall filled in with sandbags on WS toe. Flap gates appear to be missing and water readily flows through the sandbags from LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17136				

**Comment Code**

**Inspector Comment**

FS\_ID:53414

DS\_ID:17136

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

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FS Date: 10/4/2018 3:39:00 PM

Photo 1 of 3 : UCIP\_FA\_2018\_53414\_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17136				

**Comment Code**

**Inspector Comment**

FS\_ID:53414

DS\_ID:17136

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

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FS Date: 10/4/2018 3:39:00 PM

Photo 2 of 3 : UCIP\_FA\_2018\_53414\_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID	17136				

**Comment Code**

**Inspector Comment**

FS\_ID:53414

DS\_ID:17136

EP\_NO: N/A

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Sink hole observed between the dual 18-inch pipes located on the LS near the concrete headwall. Erosion was also observed behind the concrete headwall located on the LS. Inlet of dual 18-inch pipes was still covered by filled sandbags. Crossing remains Urgent due to the sink hole and erosion visible on the LS. These crossings were recommended for replacement under the SBFCA project; however, no work has been done to date. Recommend monitoring site and coordinating with SBFCA to determine the status of the project. (O. Magana - DWR UCIP)

4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - W. Wylie)

FIELD\_STRUCT\_DESC: 2 of 2: 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955, (Station 982+00)].

FS Date: 10/4/2018 3:39:00 PM

Photo 3 of 3 : UCIP\_FA\_2018\_53414\_64660.jpg



Flap gates appear to be missing from U shaped headwall. Sandbags fill headwall but water flows heavily from LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	2.17	Rating **	U	Issue No.	143
LM End	2.17	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.911734 °	38.911734 °
				-121.586106 °	-121.586106 °
DWR ID	17088				

**Comment Code**

**Inspector Comment**

FS\_ID:53408

DS\_ID:17088

EP\_NO: 3284

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 10/04/2018 Cavity filled with rock is still intact. Unable to determine cause of cavity collapse. Photos taken from LS show some sediment buildup inside concrete culvert. The pipe is a straight through culvert that goes through a tall levee (about 25 feet tall). Recommend internal inspection to determine integrity condition of culvert through the levee. Crossing remains Urgent due to the cavity collapse observed during 2017 (unknown cause of failure) and the unknown condition of the culvert through the levee. Erosion and potential sink holes visible behind concrete box on the WS toe. (O. Magana - DWR UCIP)

4/11/2017 There was a cavity collapse above the pipe alignment on the WS slope during January 2017 high water event. Cavity was filled with rock to prevent further levee damage during the high water season. Further inspection will be needed on this crossing to determine the cause of the collapse. Recommend having an internal camera inspection done. Erosion happening around the WS concrete vault. (DWR Sutter Yard- A Freitag) 10/10/2016 LS pipe end was mostly submerged so could not verify the connectivity between the LS headwall and WS vault. Blackberries and still overgrown on WS. (DWR Sutter Yard - a Freitag) 4/18/2016 WS vault is being overgrown with blackberries. They should be sprayed and cleared back. No other problems were noticeable with this crossing. 5/12/2015 Only the right flapgate appeared to be abandoned. The left and middle flap gates were flowing water during the last inspection. 11/17/2014 Same as last inspection. 5/14/2014 Same as last inspection. 10/30/2013 Same as last inspection. 5/21/2013 Pumping plant was running and filling concrete vault on WS toe through the left flap gate and then flowing through levee pipe and filling irrigation ditch on LS. Left and middle flap gates appear to be connected to pumps and right gate appears abandoned. Recommend contacting owner to get more details. 10/10/2012 Pumping plant has been disconnected from levee. Need to determine if abandonment is appropriate or if this is now a gravity drain with flap gate. (DWR UCIP - W. Wylie)

FIELD\_STRUCT\_DESC: 32-inch by 32-inch reinforced concrete irrigation culvert through the levee, approximately 28 feet below the crown. Transition between vault on the waterside (WS) and box culvert within levee section is made with a 41-inch corrugated metal pipe (CMP). Slide gate located on the landside (LS) at concrete headwall. Flap gate in concrete vault on the WS at terminal of pipes from pump structure in floodway. Pipes from pump station located on the WS are no longer connected. (Permit No. 3284, 1960 - Richards). [Additional Reference(s): DWR Levee Log, 2005].

Photo 1 of 3 : UCIP\_FA\_2018\_53408\_64668.jpg



32X32 box culvert on LS toe in Concrete U shaped channel with slide gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

FS Date: 10/4/2018 3:40:00 PM

LM Start	<b>2.17</b>	Rating **	U	Issue No.	<b>143 (cont)</b>
LM End	<b>2.17</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_53408\_64667.jpg



8-foot X 14-foot concrete box on WS toe with slide gate and 3 abandoned flap gates.

LM Start	<b>2.17</b>	Rating **	U	Issue No.	<b>143 (cont)</b>
LM End	<b>2.17</b>	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP\_FA\_2018\_53408\_64666.jpg



Pumping plant on WS toe at small slough. Pipes no longer connected to concrete box on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	2.18	Rating **	A/W	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
No animal activity viewed at time of inspection, Fall 2018.					

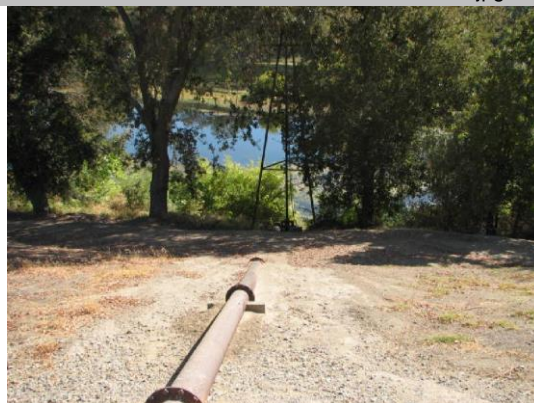
Photo 1 of 1 : FA\_2018\_MA0003\_195\_18\_20180918\_00004.jpg



View of rodent holes that need to be backfilled, No evidence of rodents during inspection. Fall 2016.

LM Start	3.78	Rating **	M	Issue No.	144
LM End	3.78	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.932482 °	38.932482 °
				-121.591005 °	-121.591005 °
DWR ID	17087				
Comment Code					
Inspector Comment					
FS_ID:52788 DS_ID:17087 EP_NO: 1730 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Big dig out/depression still present at the LS toe. Pipe is set to be replaced during the SBFCA project so depression should be repaired then. (DWR Sutter Yard-AFreitag)10/10/2016 Depression is still present at the LS toe but appears that it was dug out on purpose.(DWR Sutter Yard -afreitag)4/18/2016 Big depression on LS toe along the pipe alignment. 5/12/2015 Crossing appears to be in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection. FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, 4.5 feet below the crown. Gate valve and pump located on the waterside (WS). 24-inch concrete standpipe located on the landside (LS) toe has been degraded to ground elevation and filled in with soil. Pipe remains intact. Steel tower over pump is located on the WS. (Permit No. 1730, 1959 - Robert L. Crandall). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:16:00 AM					

Photo 1 of 3 : UCIP\_FA\_2018\_52788\_64672.jpg



Pipe, pump, and tower on WS slope/toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0003**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	09/18/2018 09/18/2018	Sterling York

LM Start	3.78	Rating **	M	Issue No.	144 (cont)	
LM End	3.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.932482 °	38.932482 °	
				-121.591005 °	-121.591005 °	
DWR ID	17087					
Comment Code						
Inspector Comment						
FS_ID:52788 DS_ID:17087 EP_NO: 1730 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/11/2017 Big dig out/depression still present at the LS toe. Pipe is set to be replaced during the SBFCA project so depression should be repaired then. (DWR Sutter Yard - A Freitag)10/10/2016 Depression is still present at the LS toe but appears that it was dug out on purpose.(DWR Sutter Yard - A Freitag)4/18/2016 Big depression on LS toe along the pipe alignment. 5/12/2015 Crossing appears to be in good condition. No noticeable issues to report.11/17/2014 Same as last inspection.5/14/2014 Same as last inspection.10/30/2013 Same as last inspection.5/21/2013 SBFCA project recommends replacing in accordance with title 23. Same as last inspection. FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, 4.5 feet below the crown. Gate valve and pump located on the waterside (WS). 24-inch concrete standpipe located on the landside (LS) toe has been degraded to ground elevation and filled in with soil. Pipe remains intact. Steel tower over pump is located on the WS. (Permit No. 1730, 1959 - Robert L. Crandall). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 4/12/2017 9:16:00 AM						

LM Start	<b>3.78</b>	Rating **	M	Issue No.	<b>144 (cont)</b>
LM End	<b>3.78</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_52788\_64671.jpg



Pipe at LS shoulder showing exposed concrete cutoff wall.

Photo 3 of 3 : UCIP\_FA\_2018\_52788\_64670.jpg



Pump at WS toe with tower over top and concrete U shaped headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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